

	Type	L #	Hits	Search Text	DBs	Time Stamp
1	IS&R	L1	645	(174/35GC) .CCLS.	USPAT; US-PGP UB; EPO; JPO; DERWEN T	2002/11/18 08:07
2	BRS	L2	69	1 and hinge	USPAT; US-PGP UB; EPO; JPO; DERWEN T	2002/11/18 08:15
3	BRS	L3	14	"4980516"	USPAT; US-PGP UB; EPO; JPO; DERWEN T	2002/11/18 08:15
4	IS&R	L4	2	("4980516") .PN.	USPAT; US-PGP UB; EPO; JPO; DERWEN T	2002/11/18 08:15

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US 20030054131A1

(19) United States

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(54) CARRIER MEMBER MADE OF A UV
RESISTANT FIBER-REINFORCED
COMPOSITE MATERIAL AND PROCESS
FOR PRODUCING THEREOF

(52) U.S. Cl. 428/113

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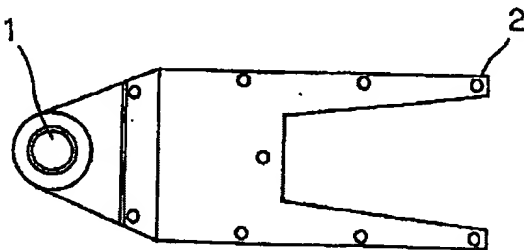
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(51) Int. Cl. B32B 5/12

(57) ABSTRACT

This invention provides a carrier member made of a UV resistant fiber-reinforced composite material where a UV resistant coating material is applied on the surface of the fiber-reinforced composite material and a process for producing thereof. A preferable fiber-reinforced composite material is a fiber-reinforced plastic or carbon fiber-reinforced carbon composite material. A UV resistant coating material is one or more selected from the group consisting of ceramics, ceramets, metals and alloys. The carrier member is produced by coating the surface of the fiber-reinforced composite material with a UV resistant coating material by spraying. This carrier member is advantageous in that it can exhibit properties inherent to a fiber-reinforced composite material such as a light weight, higher rigidity and higher heat resistance and that it does not contaminate a precision instrument material when being used in cleaning with UV.



DOCUMENT-IDENTIFIER: US 20030054131 A1

TITLE: Carrier member made of a UV resistant fiber-reinforced composite material and process for producing thereof

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Detail Description Paragraph - DETX (51):

[0069] The primary carrier member made of a C/C composite thus obtained exhibited a bulk density of 1.90 g/cm³, a fiber volume content Vf=60%, an elongation modulus of 245 GPa, a thermal conductivity along the carbon fiber orientation direction of 400 W/mK and a thermal conductivity perpendicular to the carbon fiber orientation direction of 20 W/mK.

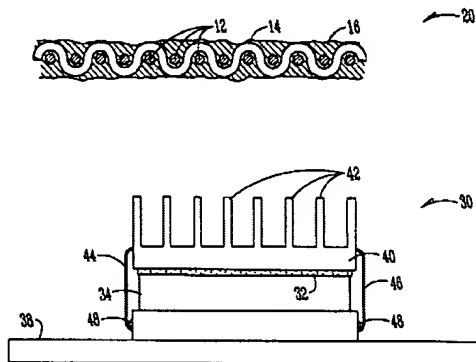
10	US 6367509 B1	USPAT	20020409	8	Th
11	US 6365257 B1	USPAT	20020402	26	Ch
12	US 6303096 B1	USPAT	20011016	6	Pit
13	US 6250378 B1	USPAT	20010626	58	Inf
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- 33 Claims, 2 Drawing Sheets



10	US 6367509 B1	USPAT	20020409	8	Th
11	US 6365257 B1	USPAT	20020402	26	Ch
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